

Tunisian National Chapter – 2017 Report

- French translation of the 9th chapter “Groundwater Contamination” of Alan Freeze and John Cherry’s *Groundwater* (1979) textbook. 16 Tunisian researchers have participated to the translation of the chapter. The French translation of the chapter is available at the following link: <http://hydrogeologistswithoutborders.org/wordpress/1979-francais/chapitre-9/>
- 23-27 October 2017: Organization of the Workshop “Modelling for Sustainable Groundwater Management ” with the collaboration of the Faculty of Sciences of Tunis, Center of Research and Water Technologies, National Engineering School of Tunis and the University of Geography of Mexico. The workshop which took place in the Faculty of Sciences of Tunis, enclosed keynote conferences, training sessions and presentation of case studies. A field trip was organized to visit the artificial recharge site of Mornag aquifer and the archaeological site of Oudhna (Uthina). 18 PhD students, engineers and researchers have followed the workshop activities. Keynote speakers were invited from Tunisia, Mexico, Belgium and Italy.



**"Water for Development" Association
(Association Eau et Développement)**

**Tunisian Committee of Hydrogeology
(Comité Tunisien d'Hydrogéologie)**

In collaboration with



organizes

Workshop on Modelling for Sustainable Groundwater Management

October 23th to 27th, 2017
Tunis, Tunisia

Sponsored by



• Background and objectives

In arid zones, freshwater is a limited and precious element for life. Current situation of the water sources and their utilization present stakes which are common to many areas of the Mediterranean basin such Tunisia: limited and largely developed water sources further constrained by climatic conditions which come to reinforce the tensions around freshwater. Over the last ten years there has been an extensive expansion of decision supporting tools, mainly regional groundwater models aiming to assist in managing water sources. Young technical engineers, researchers and PhD students working in the field of water sciences often face a lack of familiarity with the constrain of models that could hinder the resolution of the posed problem or lead to fallacious solutions to technical and human related issues associated to groundwater mismanagement. The present workshop (in English) aims at learning and promoting the discovery of knowledge and decision-making tools applied to the functioning of groundwater resources, enabling participants exchange of information, comparative practical knowledge, as well as drawing up new proposals with a view of improving work-plans. It focuses on the development of mathematical solutions of hydrogeological models and advanced information technologies as well as their application to groundwater issues where social, economic and environmental aspects are integrated to achieve feasible proposals for a sustainable development.

• Themes

The workshop topics include the following themes:
Theme 1: Groundwater modelling: Conceptualization, Calibration, and Optimization.

Theme 2: Groundwater management, Groundwater vulnerability to contaminants and Hydrochemistry modelling

Theme 3: Multi Criteria Decision Analysis, GIS and Remote Sensing

• Steering committee

Chairman: Mounira Zammouri, FST/CTH/AED

Vice-Chair: Fadoua Hamzaoui, FST/CTH/AED

Faten Jarraya Horriche, CERTE/CTH/AED

Fairouz Slama, ENIT/CTH/AED

Shem Benabdallah, CERTE/CTH/AED

Rachid Khanfir, CTH/AED

• Keynote speakers

Pr. José Joel Carrillo-Rivera, Universidad Nacional Autónoma de México, Mexico

Pr. Marnik Vanclooster, Catholic University of Louvain-la-Neuve, Belgium

Pr. Rachida Bouhila, University of Tunis El Manar, Tunisia

Pr. Alessandra Feo, University of Parma, Parma, Italy

Dr. Hedia Chakroun, University of Tunis El Manar, Tunisia

Dr. Rachid Khanfir, Tunisian Committee of Hydrogeology, Tunisia

Speakers will present the basic principles and the state of the art of groundwater modelling and the use of associate tools.

• Training Coaching

José Joel Carrillo-Rivera

Fadoua Hamzaoui

Faten Jarraya Horriche

Fairouz Slama

Mounira Zammouri

• Participants & Registration

The workshop is open to all who are actively involved in groundwater assessment and management. It is anticipated that universities, research institution, water and environment companies would be amongst those taking part. Participants will be invited to present a case study, to share their experiences and debate about some of the key challenges involved. Attendees are limited to 25 applicants. Abstracts and application forms may be submitted to Dr. Fadoua Hamzaoui (cthworkshop2017@gmail.com) before Monday March 6th 2017. Application forms are available at: www.eauetdev.org/cthw. All accepted abstracts will be included in the Proceedings of the workshop. The participation and the presentation during the workshop and the inclusion in the Proceedings shall be subjected to the registration and payment of the participant by 30th May, 2017.

• Venue

The workshop will take place in the **Faculty of Sciences of Tunis, Tunisia**

• Important dates

Call for applications	January 31 st 2017
Deadline for submission	March 6 th 2017
Participant notification	April 6 th 2017
Registration Deadline	May 30 th 2017
Workshop	October 23 th to 27 th , 2017

• Registration Fees and Payment

Participant Category	Local participant	Foreign participant
Researcher and scholar	400 (TND)	300 (€)
PhD Student	300 (TND)	200 (€)
Industry participant	450 (TND)	350 (€)

CTH/AED/IAH members benefit from a 10 % discount

Registration fees cover admission to all sessions including plenary lectures, training courses, workshop materials, coffee breaks, lunches and field trip. Participants are in charge of their accommodations.

For TND Account, RIB: 07 309 0 075 105 587 928 33

For € Account, IBAN: TN59 0730 9007 5105 5879 2833

A limited number of scholarships (Total or partial) will be granted to the PhD students on request till March 6th 2017.

• **Field Trip:** A field trip will be organized to the groundwater artificial recharge site and to the archaeological site of Oudhna.

• Contact and information

Email: cthworkshop2017@gmail.com

Website: www.eauetdev.org/cthw



- 6-9 November 2017: Collaboration with the Spanish IAHR Chapter for the organization of the Congress “Groundwater and Global Change in the Western Mediterranean”.



- 4-8 December 2017: Co-organization with the laboratory of Modelling in Hydraulics and the Environment (LMHE) of the National Engineering School of Tunis (ENIT) of the "Opening week" dedicated to the engineering students of ENIT. The theme presented and discussed during 4 days concerned the climate change and the water resources. A field trip was also organized to visit the archaeological sites of Oudhna and “Temple of waters” in Zaghouan.

